BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Improvements to Roads and Drains at Gupta Layout and Surrounding Area Roads in Ward No 06 Thanisandra**

Pre Measurements

Job Code : **006-20-000011**

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BRUHATH BANGALORE MAHANAGARAPALIKE

YELAHANKA ZONE

Pre Measurements

Name of work: Improvements to Roads and Drains at Gupta Layout and Surrounding Area Roads in Ward No 06 Thanisandra

Work Order No: BBMP/EE/BTP/WO/142/2020-21 dt: 26.11.2020

JOB NUMBER: 006-21-000011

Estimate Cost: 100.00 lakhs.

Name of Contractor : Sri. K Lakshmi Narayana Reddy

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80						
	Gupta Layout						
	Chicha House-A		1	30.00	1.20	1.05	**37.80**
			1	30.00	1.20	1.05	**37.80**
			1	30.00	1.20	1.05	**37.80**
			1	30.00	1.20	1.05	**37.80**
			1	2.20	1.20	1.05	**2.77**
	cross Road -A1		1	12.70	1.20	1.05	**16.00**
	Cross Road B		1	32.00	1.20	1.05	**40.32**
	Cross Road C		1	30.00	1.20	1.05	**37.80**
			1	7.30	1.20	1.05	**9.20**
	Cross Road C1		1	30.00	1.05	1.05	**33.08**
			1	7.20	1.05	1.05	**7.94**
	Cross Road C2		1	30.00	1.05	1.05	**33.08**
			1	20.40	1.05	1.05	**22.49**
	Cross Road C3		1	30.00	1.05	1.05	**33.08**
			1	4.00	1.05	1.05	**4.41**
	Tuba Layout Main Road Last Cross Roads		1	30.00	1.05	1.05	**33.08**
			1	30.00	1.05	1.05	**33.08**
			1	30.00	1.05	1.05	**33.08**
			1	12.00	1.05	1.05	**13.23**
	Main Road Left Side		1	35.00	1.20	1.05	**44.10**
			1	30.00	1.20	1.05	**37.80**
			1	34.70	1.20	1.05	**43.72**
	New CC Culvert						
	Gupta Layout						
	Cross Road -4		1	5.20	1.50	1.05	**8.19**
			1	7.50	1.50	1.05	**11.81**
			1	11.20	1.50	1.05	**17.64**
				Actiual Qty			**667.08**
	Total			Limited to			**637.58**

Assistant Engineer 09/12/2020

Assistant Executive Engineer 2/12/2020

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o	Description of work	Unit	Mesurement No.	L	B	D	Qty
	Ward No 06				Byatarayanapura Sub Division		
2	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18						
	New Drain	Cum					
	Gupta Layout						
	Chicha House-A		1	30.00	1.20	0.15	**5.40**
			1	30.00	1.20	0.15	**5.40**
			1	30.00	1.20	0.15	**5.40**
			1	30.00	1.20	0.15	**5.40**
			1	2.20	1.20	0.15	**0.40**
	cross Road -A1		1	12.70	1.20	0.15	**2.29**
	Cross Road B		1	32.00	1.20	0.15	**5.76**
	Cross Road C		1	30.00	1.20	0.15	**5.40**
			1	7.30	1.20	0.15	**1.31**
	Cross Road C1		1	30.00	1.05	0.15	**4.73**
			1	7.20	1.05	0.15	**1.13**
	Cross Road C2		1	30.00	1.05	0.15	**4.73**
			1	20.40	1.05	0.15	**3.21**
	Cross Road C3		1	30.00	1.05	0.15	**4.73**
			1	4.00	1.05	0.15	**0.63**
	Tuba Layout Main Road Last Cross Roads		1	30.00	1.05	0.15	**4.73**
			1	30.00	1.05	0.15	**4.73**
			1	30.00	1.05	0.15	**4.73**
			1	12.00	1.05	0.15	**1.89**
	Main Road Left Side		1	35.00	1.20	0.15	**6.30**
			1	30.00	1.20	0.15	**5.40**
			1	34.70	1.20	0.15	**6.25**
			1		1.20	0.15	**0.00**
	New CC Culvert						
	Gupta Layout						
	Cross Road -4		1	5.20	1.50	0.15	**1.17**
			1	7.50	1.50	0.15	**1.69**
			1	11.20	1.50	0.15	**2.52**
	Concrete Road						
	Gupta Layout						
	Cross Road -1		1	15.00	3.8+3.55	0.15	**8.27**
					2		
			1	16.00	3.55	0.15	**8.52**
			1	15.00	6.25+7.25	0.15	**15.19**
					2		
			1	15.00	7.25+6.55	0.15	**15.53**
					2		
			1	15.00	6.55+6.50	0.15	**14.68**
					2		
			1	15.00	6.5+6.65	0.15	**14.79**
					2		

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Description of work	Unit	Mesurement				Qty
		No.	L	B	D	
		1	15.00	6.65+6.55	0.15	**14.85**
				2		
		1	16.20	6.55+6.60	0.15	**15.98**
				2		
		1	8.70	7.55+6.4	0.15	**9.10**
				2		
Cross Road-3		1	15.00	3.4+3.75	0.15	**8.04**
				2		
		1	15.00	3.75+3.65	0.15	**8.33**
				2		
		1	2.00	3.65	0.15	**1.10**
Cross Road -4						
Cross A		1	15.00	5.0+5.1	0.15	**11.36**
				2		
		1	15.00	5.1+5.2	0.15	**11.59**
				2		
		1	4.00	5.20	0.15	**3.12**
Cross B		1	15.00	5.3+5.25	0.15	**11.87**
				2		
		1	15.00	5.25+5.30	0.15	**11.87**
				2		
		1	15.00	5.30	0.15	**11.93**
		1	5.40	5.30	0.15	**4.29**
Cross C		1	15.00	5.35+5.25	0.15	**11.93**
				2		
		1	15.00	5.25+5.30	0.15	**11.87**
				2		
		1	7.75	5.30+5.40	0.15	**6.22**
				2		
		1	6.30	6.95+6.8	0.15	**6.50**
				2		
		1	15.00	3.5+3.4	0.15	**7.76**
				2		
		1	15.00	3.4+3.6	0.15	**7.88**
				2		
		1	7.70	3.6+3.75	0.15	**4.24**
				2		
Cross Road		1	30.00	3.00+2.9	0.15	**13.28**
				2,		
Tuba layout Last cross roal L/s		1	12.00	(1.30+1.50)	0.15	**2.52**
				2		
		1	12.00	(0.95+0.75)	0.15	**1.53**
				2		
		1	15.00	(4.50+4.85)	0.15	**10.52**
				2		
		1	11.70	(4.85+3.90)	0.15	**7.68**
				2		
		1	15.00	(5.15+4.60)	0.15	**10.97**
				2		
		1	18.00	(4.60+4.10)	0.15	**11.75**
				2		
		1	15.00	(3.50+3.50)	0.15	**7.88**

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‹o	Description of work	Unit	Mesurement No.	L	B	D	Qty
					2		
			1	15.00	(3.50+2.75)	0.15	7.03
					2		
			1	8.70	(2.75+2.60)	0.15	3.49
					2		
			1	3.90	(1.90+1.95)	0.15	1.13
					2		
	cross road		1	21.40	3.65+2.95+2.40	0.15	11.48
					3		
	Fatima layout cross roa w0996		1	30.00	4.40	0.15	19.80
			1	10.00	4.25	0.15	6.38
							467.50
	Deduct MH		16	0.785X0.90X0.9		0.15	1.53
	Receiving Chambers		33	0.45	0.45	0.15	1.00
	Total Deduction						2.53
				Actiual Qty			464.97
				Limited to			461.58

14/12/2020

Assistant Engineer
Ward No. 06

14/12/2020

Assistant Executive Engineer
Byatarayanapura Sub Division

4	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2						
	for RCC drain	Tonne					
	10 mm dia main bars						
	Gupta Layout						
	Chicha House-A		200	2	2.30		920.00
			200	2	2.30		920.00
			200	2	2.30		920.00
			200	2	2.30		920.00
			14.67	2	2.30		67.47
	cross Road -A1		84.67	2	2.30		389.47
	Cross Road B		213.3	2	2.30		981.33
	Cross Road C		200	2	2.30		920.00
			48.67	2	2.30		223.87
	Cross Road C1		200	2	2.30		920.00
			48	2	2.30		220.80
	Cross Road C2		200	2	2.30		920.00
			136	2	2.30		625.60
	Cross Road C3		200	2	2.30		920.00
			26.67	2	2.30		122.67
	Tuba Layout Main Road Corner Cr Roads		200	2	2.30		920.00
			200	2	2.30		920.00
			200	2	2.30		920.00
			80	2	2.30		368.00
			233.3	2	2.30		1073.33
			200	2	2.30		920.00
			231.3	2	2.30		1064.13

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. No	Description of work	Unit	Mesurement No.	L	B	D	Qty
				Total Length in Mtr			16176.67
				wt @ 0.62kg/mtr			10029.53
b	8 mm dia distribution bars						
	Gupta Layout						
	Chicha House-A		12	30.00			360
			12	30.00			360
			12	30.00			360
			12	30.00			360
			12	2.20			26.4
	cross Road -A1		12	12.70			152.4
	Cross Road B		12	32.00			384
	Cross Road C		12	30.00			360
			12	7.30			87.6
	Cross Road C1		12	30.00			360
			12	7.20			86.4
	Cross Road C2		12	30.00			360
			12	20.40			244.8
	Cross Road C3		12	30.00			360
			12	4.00			48
	Tuba Layout Main Road Corner cr Roads		12	30.00			360
			12	30.00			360
			12	30.00			360
			12	16.00			192
			12	30.00			360
			12	30.00			360
			12	30.00			360
			12	12.00			144
			12	35.00			420
			12	30.00			360
			12	34.70			416.4
				Total Length in Mtr			7602.00
				wt @ 0.39kg/mtr			2964.78
	for culverts 12 mm dia bars						
	Cross Road -4		35	2.50	2		175.00
			50	2.50	2		250.00
			75	2.50	2		375.00
				Total Length in Mtr			**800.00**
			C	**wt @ 0.89kg/mtr**			**712**
	10 mm dia bars						
	Cross Road -4		13	5.20			67.60
			13	7.50			97.50
			13	11.20			145.60
				Total Length in Mtr			**310.70**
			D	**wt @ 0.62kg/mtr**			**192.63**
				Tota Wt in kgs			**13898.95**
				Tota Wt in Tonne			**13.90**
				Limited to			**13.37**

07/12/2020

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

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No	Description of work	Unit	Mesurement No.	L	B	D	Qty
7	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)						
	Concrete Road	Cum					
	Gupta Layout						
	Cross Road -1		1	15.00	3.8+3.55	0.45	**24.81**
					2		
			1	16.00	3.55	0.50	**28.40**
			1	15.00	6.25+7.25	0.50	**50.63**
					2		
			1	15.00	7.25+6.55	0.50	**51.75**
					2		
			1	15.00	6.55+6.50	0.50	**48.94**
					2		
			1	15.00	6.5+6.65	0.50	**49.31**
					2		
			1	15.00	6.65+6.55	0.50	**49.50**
					2		
			1	16.20	6.55+6.60	0.50	**53.26**
					2		
			1	8.70	7.55+6.4	0.45	**27.31**
					2		
	Cross Road-3		1	15.00	3.4+3.75	0.45	**24.13**
					2		
			1	15.00	3.75+3.65	0.45	**24.98**
					2		
			1	2.00	3.65	0.45	**1.64**
	Cross Road -4						
	Cross A		1	15.00	5.0+5.1	0.45	**34.09**
					2		
			1	15.00	5.1+5.2	0.45	**34.76**
					2		
			1	4.00	5.20	0.45	**9.36**
	Cross B		1	15.00	5.3+5.25	0.45	**35.61**
					2		
			1	15.00	5.25+5.30	0.45	**35.61**
					2		
			1	15.00	5.30	0.45	**35.78**
			1	5.40	5.30	0.45	**12.88**
	Cross C		1	15.00	5.35+5.25	0.45	**35.78**
					2		
			1	15.00	5.25+5.30	0.45	**35.61**
					2		
			1	7.75	5.30+5.40	0.45	**18.66**
					2		
			1	6.30	6.95+6.8	0.45	**19.49**
					2		
			1	15.00	3.5+3.4	0.45	**23.29**
					2		

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l No	Description of work	Unit	Mesurement No.	L	B	D	Qty
			1	15.00	3.4+3.6	0.45	**23.63**
					2		
			1	7.70	3.6+3.75	0.45	**12.73**
					2		
	Cross Road		1	30.00	3.00+2.9	0.45	**39.83**
					2		
	Tuba layout Last cross roal L/s		1	12.00	(1.30+1.50)	0.45	**7.56**
					2		
			1	12.00	(0.95+0.75)	0.45	**4.59**
					2		
			1	15.00	(4.50+4.85)	0.45	**31.56**
					2		
			1	11.70	(4.85+3.90)	0.45	**23.03**
					2		
			1	15.00	(5.15+4.60)	0.45	**32.91**
					2		
			1	18.00	(4.60+4.10)	0.45	**35.24**
					2		
			1	15.00	(3.50+3.50)	0.45	**23.63**
					2		
			1	15.00	(3.50+2.75)	0.45	**21.09**
					2		
			1	8.70	(2.75+2.60)	0.45	**10.47**
					2		
			1	3.90	(1.90+1.95)	0.45	**3.38**
					2		
	cross road		1	21.40	3.65+2.95+2.40	0.45	**34.44**
					3		
	Fatima layout cross roa w0996		1	30.00	4.40	0.45	**59.40**
			1	10.00	4.25	0.45	**19.13**
							1148.14
	Deduct MH		16	0.785X0.90X0.9		0.45	**1.53**
	Receiving Chambers		33	0.45	0.45	0.45	**3.01**
	Total Deduction						**4.53**
				Actiual Qty			**1143.61**
				Limited to			**1112.48**

9/12/2020
Assistant Engineer
Ward No. 06

9/12/2020
Assistant Executive Engineer
Byatarayanapura Sub Division

8	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)						
	Concrete Road	Sqm					
	Gupta Layout						
	Cross Road -1		1	15.00	3.8+3.55		**55.13**
					2		
			1	16.00	3.55		**56.80**
			1	15.00	6.25+7.25		**101.25**
					2		
			1	15.00	7.25+6.55		**103.50**

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No	Description of work	Unit	Mesurement				Qty
			No.	L	B	D	
					2		
			1	15.00	6.55+6.50		97.88
					2		
			1	15.00	6.5+6.65		98.63
					2		
			1	15.00	6.65+6.55		99.00
					2		
			1	16.20	6.55+6.60		106.52
					2		
			1	8.70	7.55+6.4		60.68
					2		
	Cross Road-3		1	15.00	3.4+3.75		53.63
					2		
			1	15.00	3.75+3.65		55.50
					2		
			1	2.00	3.65		3.65
	Cross Road -4						
	Cross A		1	15.00	5.0+5.1		75.75
					2		
			1	15.00	5.1+5.2		77.25
					2		
			1	4.00	5.20		20.80
	Cross B		1	15.00	5.3+5.25		79.13
					2		
			1	15.00	5.25+5.30		79.13
					2		
			1	15.00	5.30		79.50
			1	5.40	5.30		28.62
	Cross C		1	15.00	5.35+5.25		79.50
					2		
			1	15.00	5.25+5.30		79.13
					2		
			1	7.75	5.30+5.40		41.46
					2		
			1	6.30	6.95+6.8		43.31
					2		
			1	15.00	3.5+3.4		51.75
					2		
			1	15.00	3.4+3.6		52.50
					2		
			1	7.70	3.6+3.75		28.30
					2		
	Cross Road		1	30.00	3.00+2.9		88.50
					2		
	Tuba layout Last cross roal L/s		1	12.00	(1.30+1.50)		16.80
					2		
			1	12.00	(0.95+0.75)		10.20
					2		
			1	15.00	(4.50+4.85)		70.13
					2		
			1	11.70	(4.85+3.90)		51.19
					2		

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...l No	Description of work	Unit	Mesurement No.	L	B	D	Qty
			1	15.00	(5.15+4.60)		73.13
					2		
			1	18.00	(4.60+4.10)		78.30
					2		
			1	15.00	(3.50+3.50)		52.50
					2		
			1	15.00	(3.50+2.75)		46.88
					2		
			1	8.70	(2.75+2.60)		23.27
					2		
			1	3.90	(1.90+1.95)		7.51
					2		
	cross road		1	21.40	3.65+2.95+2.40)		76.54
					3		
	Fatima layout cross roa w0996		1	30.00	4.40		132.00
			1	10.00	4.25		42.50
							2477.70
	Deduct MH		16	0.785X0.90X0.9		0.45	1.53
	Receiving Chambers		33	0.45	0.45	0.45	3.01
	Total Deduction						4.53
				Actiual Qty			2473.17
				Limited to			2472.18

10/12/2020
Assistant Engineer
Ward No. 06

10/12/2020
Assistant Executive Engineer
Byatarayanapura Sub Division

9	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)						
	Concrete Road	Cum					
	Gupta Layout						
	Cross Road -1		1	15.00	3.8+3.55	0.15	8.27
					2		
			1	16.00	3.55	0.15	8.52
			1	15.00	6.25+7.25	0.15	15.19
					2		
			1	15.00	7.25+6.55	0.15	15.53
					2		
			1	15.00	6.55+6.50	0.15	14.68
					2		
			1	15.00	6.5+6.65	0.15	14.79
					2		
			1	15.00	6.65+6.55	0.15	14.85
					2		
			1	16.20	6.55+6.60	0.15	15.98
					2		
			1	8.70	7.55+6.4	0.15	9.10
					2		
	Cross Road-3		1	15.00	3.4+3.75	0.15	8.04

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No	Description of work	Unit	Mesurement No.	L	B	D	Qty
					2		
			1	15.00	3.75+3.65	0.15	**8.33**
					2		
			1	2.00	3.65	0.15	**0.55**
	Cross Road -4						
	Cross A		1	15.00	5.0+5.1	0.15	**11.36**
					2		
			1	15.00	5.1+5.2	0.15	**11.59**
					2		
			1	4.00	5.20	0.15	**3.12**
			1	15.00	5.3+5.25	0.15	**11.87**
	Cross B				2		
			1	15.00	5.25+5.30	0.15	**11.87**
					2		
			1	15.00	5.30	0.15	**11.93**
			1	5.40	5.30	0.15	**4.29**
			1	15.00	5.35+5.25	0.15	**11.93**
	Cross C				2		
			1	15.00	5.25+5.30	0.15	**11.87**
					2		
			1	7.75	5.30+5.40	0.15	**6.22**
					2		
			1	6.30	6.95+6.8	0.15	**6.50**
					2		
			1	15.00	3.5+3.4	0.15	**7.76**
					2		
			1	15.00	3.4+3.6	0.15	**7.88**
					2		
			1	7.70	3.6+3.75	0.15	**4.24**
					2		
			1	30.00	3.00+2.9	0.15	**13.28**
	Cross Road				2		
			1	12.00	(1.30+1.50)	0.15	**2.52**
	Tuba layout Last cross roal L/s				2		
			1	12.00	(0.95+0.75)	0.15	**1.53**
					2		
			1	15.00	(4.50+4.85)	0.15	**10.52**
					2		
			1	11.70	(4.85+3.90)	0.15	**7.68**
					2		
			1	15.00	(5.15+4.60)	0.15	**10.97**
					2		
			1	18.00	(4.60+4.10)	0.15	**11.75**
					2		
			1	15.00	(3.50+3.50)	0.15	**7.88**
					2		
			1	15.00	(3.50+2.75)	0.15	**7.03**
					2		
			1	8.70	(2.75+2.60)	0.15	**3.49**
					2		
			1	3.90	(1.90+1.95)	0.15	**1.13**
					2		

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Description of work	Unit	Mesurement No.	L	B	D	Qty
cross road		1	21.40	(3.65+2.95+2.40)	0.15	11.48
				3		
Fatima layout cross roa w0996		1	30.00	4.40	0.15	19.80
		1	10.00	4.25	0.15	6.38
						371.65
Deduct MH		16	0.785X0.90X0.9		0.15	1.53
Receiving Chambers		33	0.45	0.45	0.15	1.00
Total Deduction						2.53
			Actual Qty			369.13

Assistant Engineer
Ward No 06

Assistant Executive Engineer
Byatarayanapura Sub Division

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